

Fig. 1

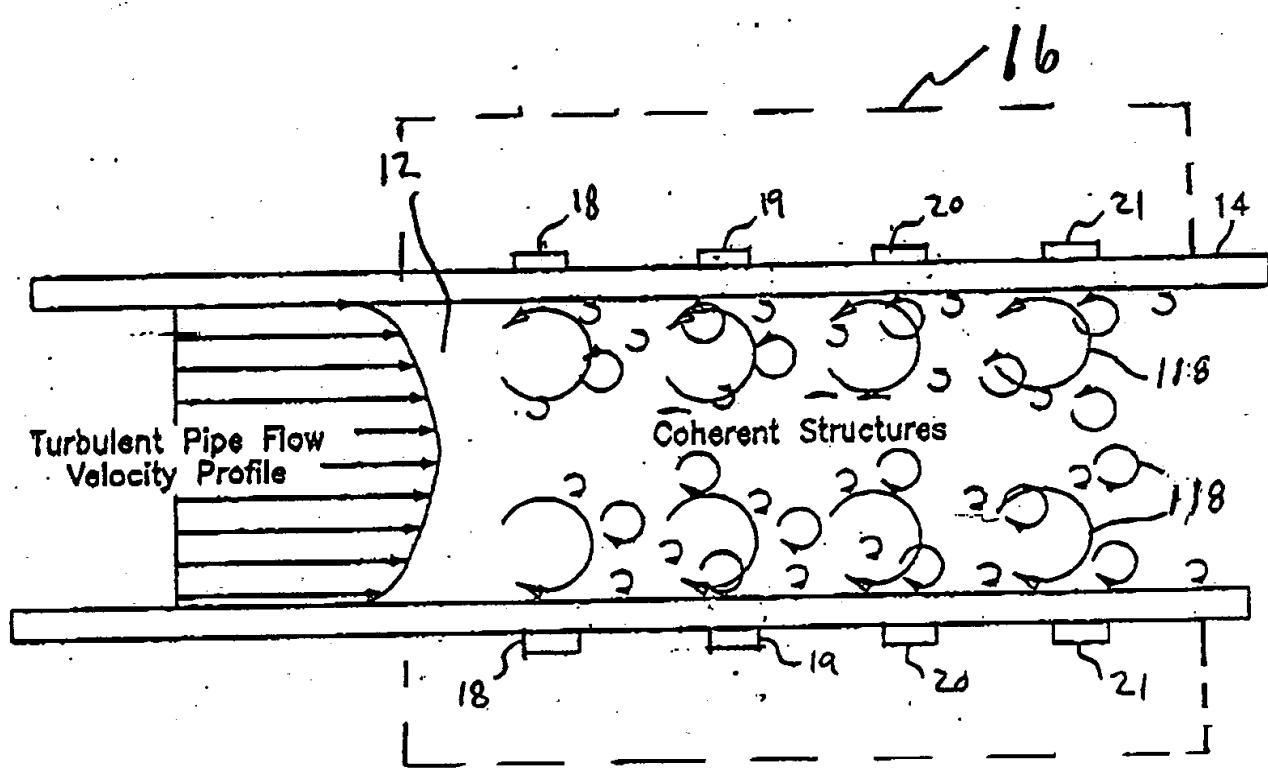


FIGURE 2

STEPS —
PERFORMED
BY
ARRAY
PROCESSOR 36

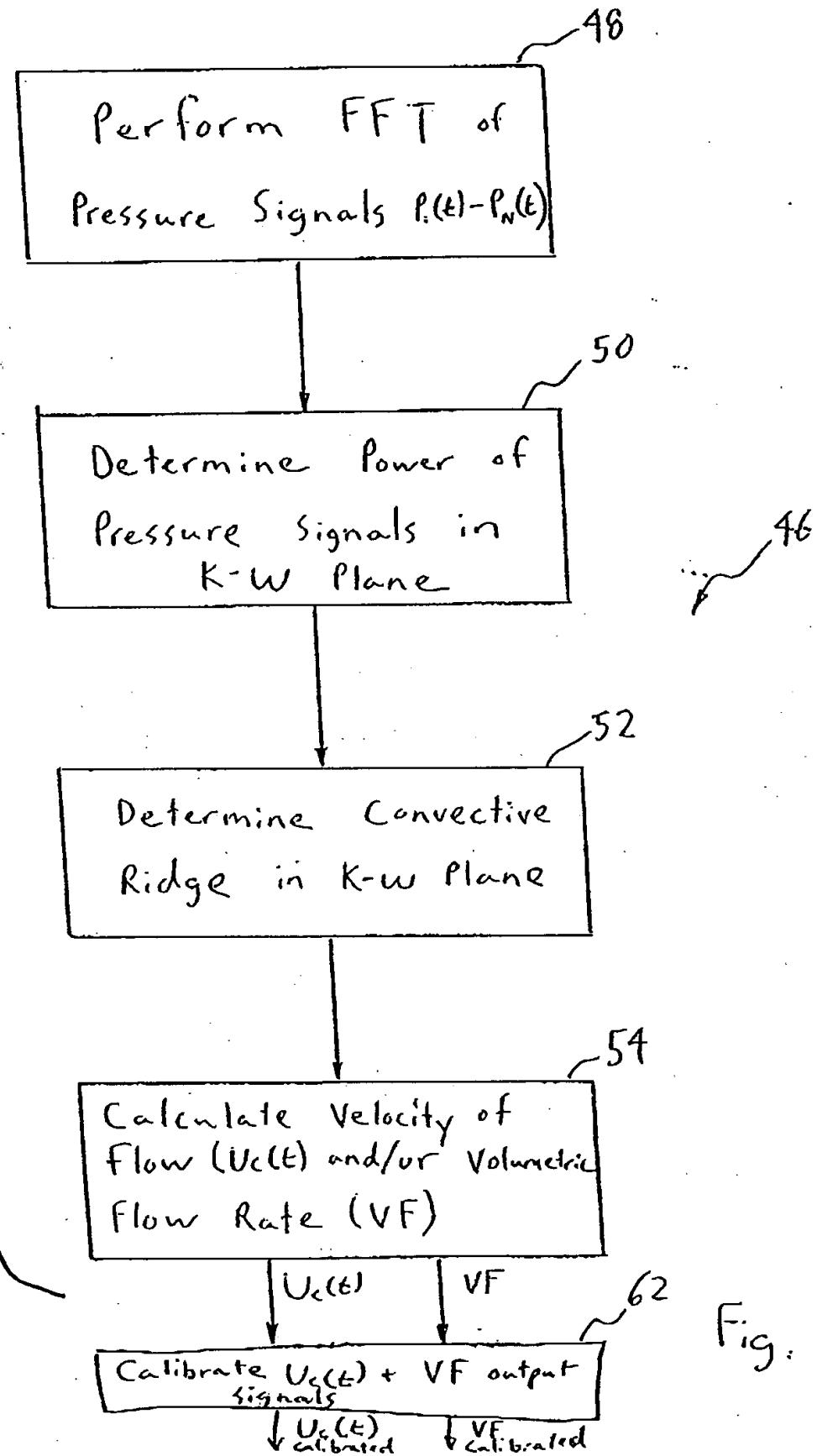


Fig. 3

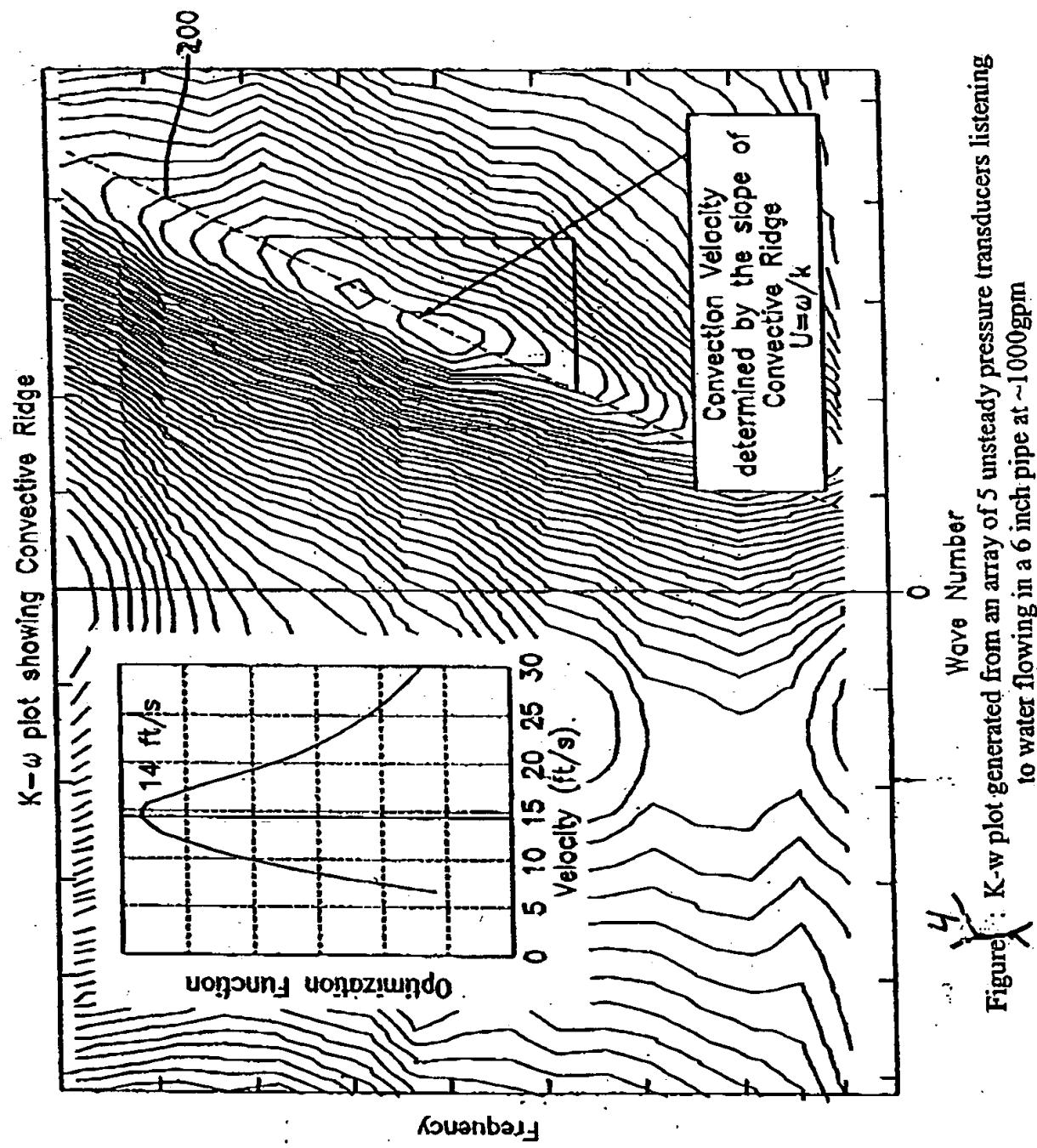


Figure 4: K- ω plot generated from an array of 5 unsteady pressure transducers listening to water flowing in a 6 inch pipe at ~ 1000 gpm

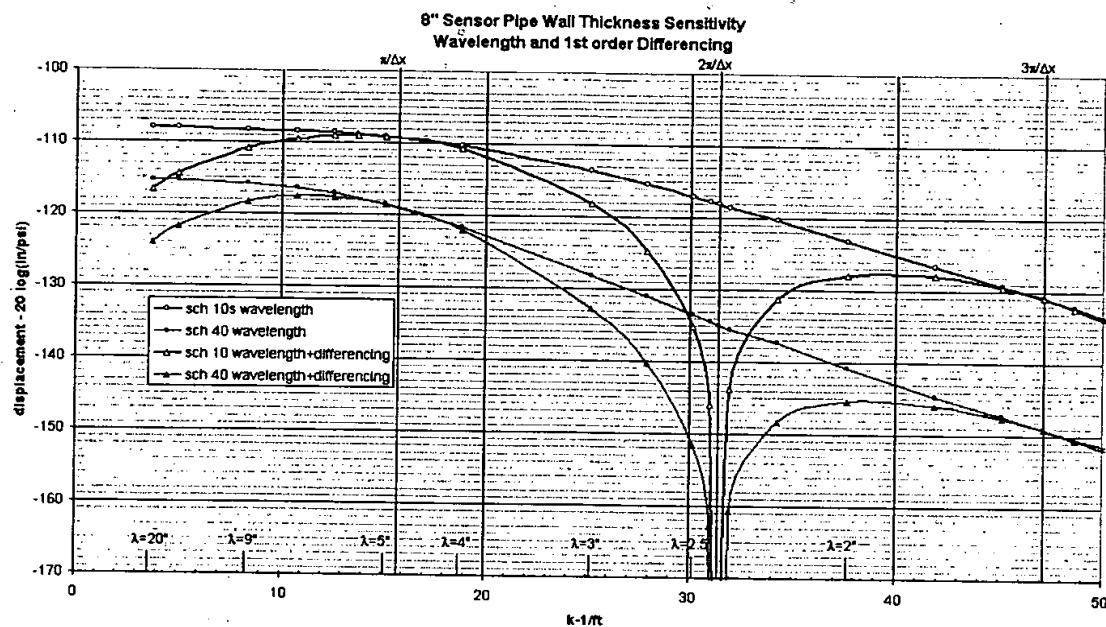


Fig. 5

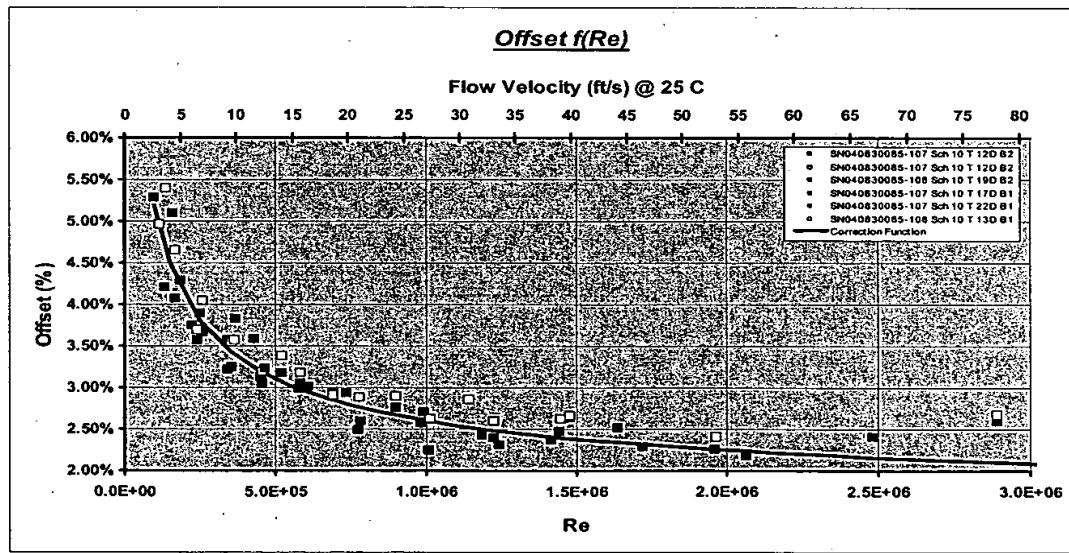


Fig. 6

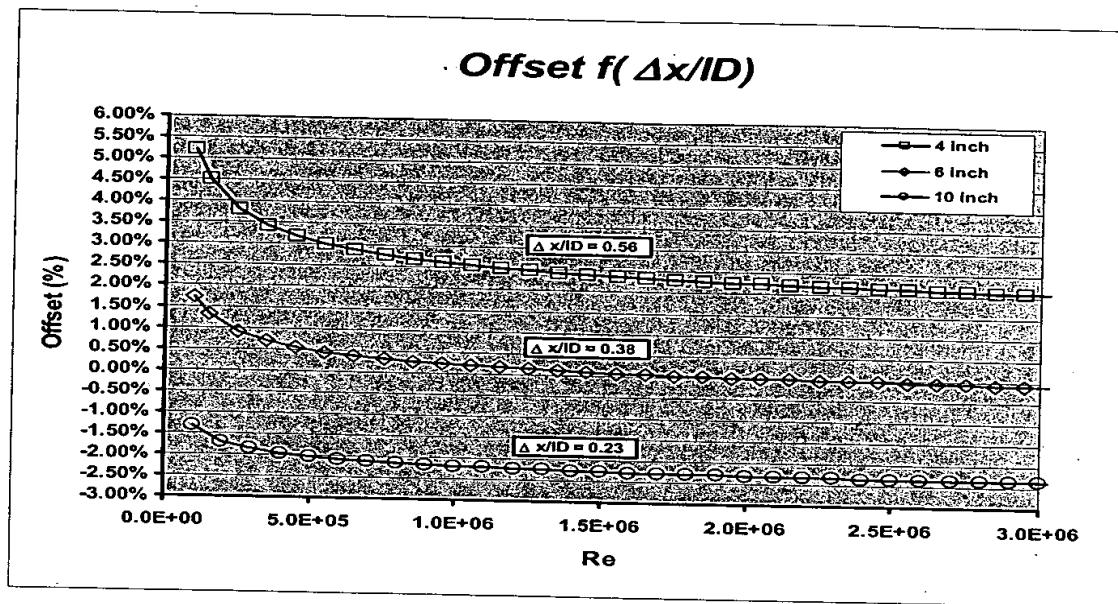


Fig. 7

Dimensional k- ω plot

FIG. 8(a)

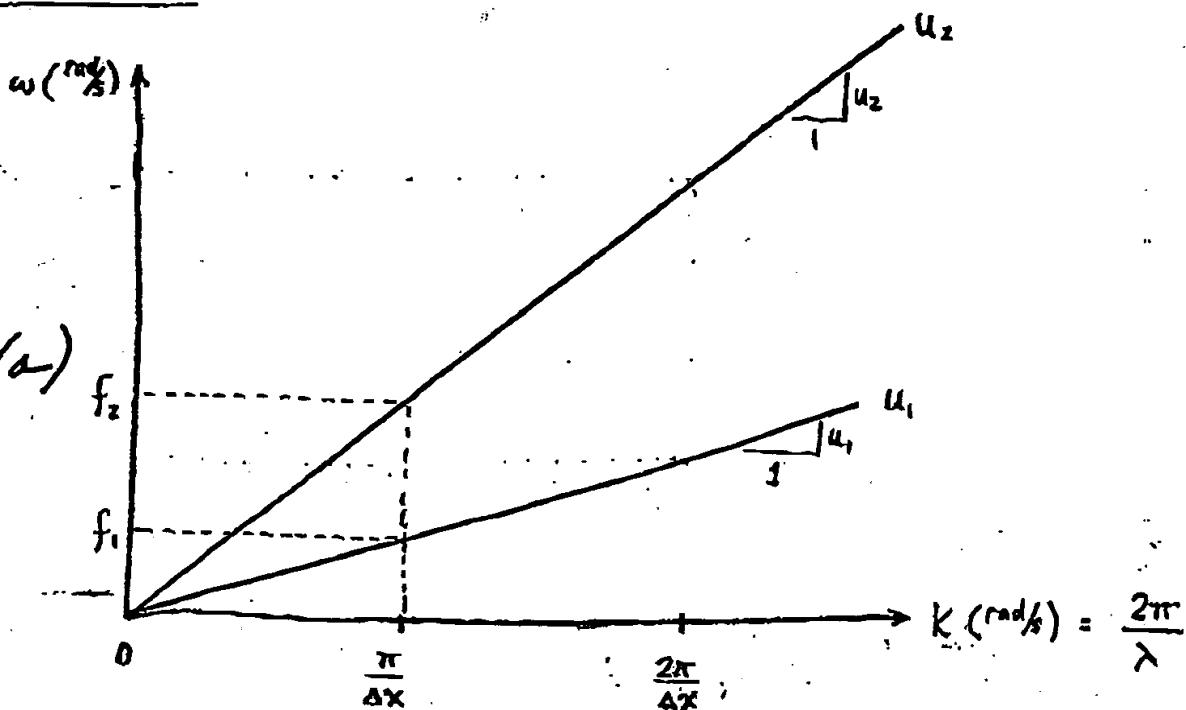


FIG. 8(b)

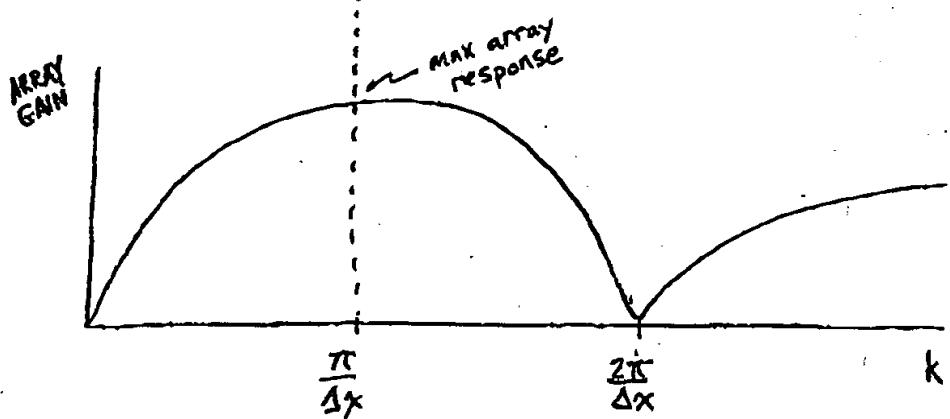


FIG. 8

Non-Dimensional k- ω plot

FIG. 8(c)

$$\frac{f_1 \Delta x}{u_1} = \frac{f_2 \Delta x}{u_2}$$

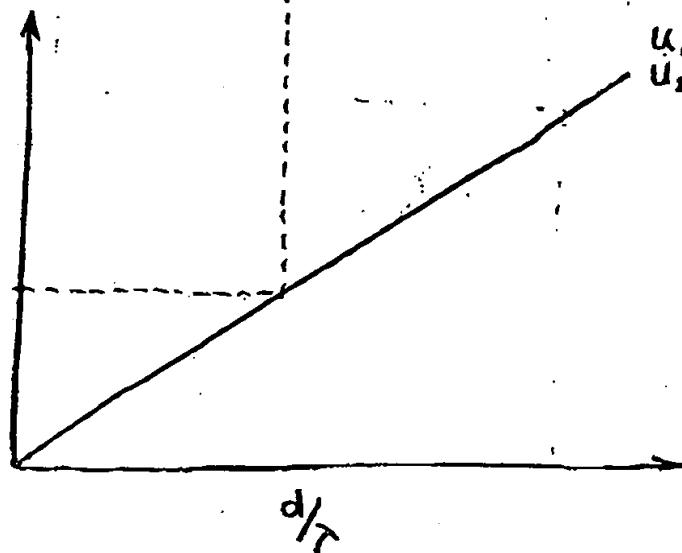
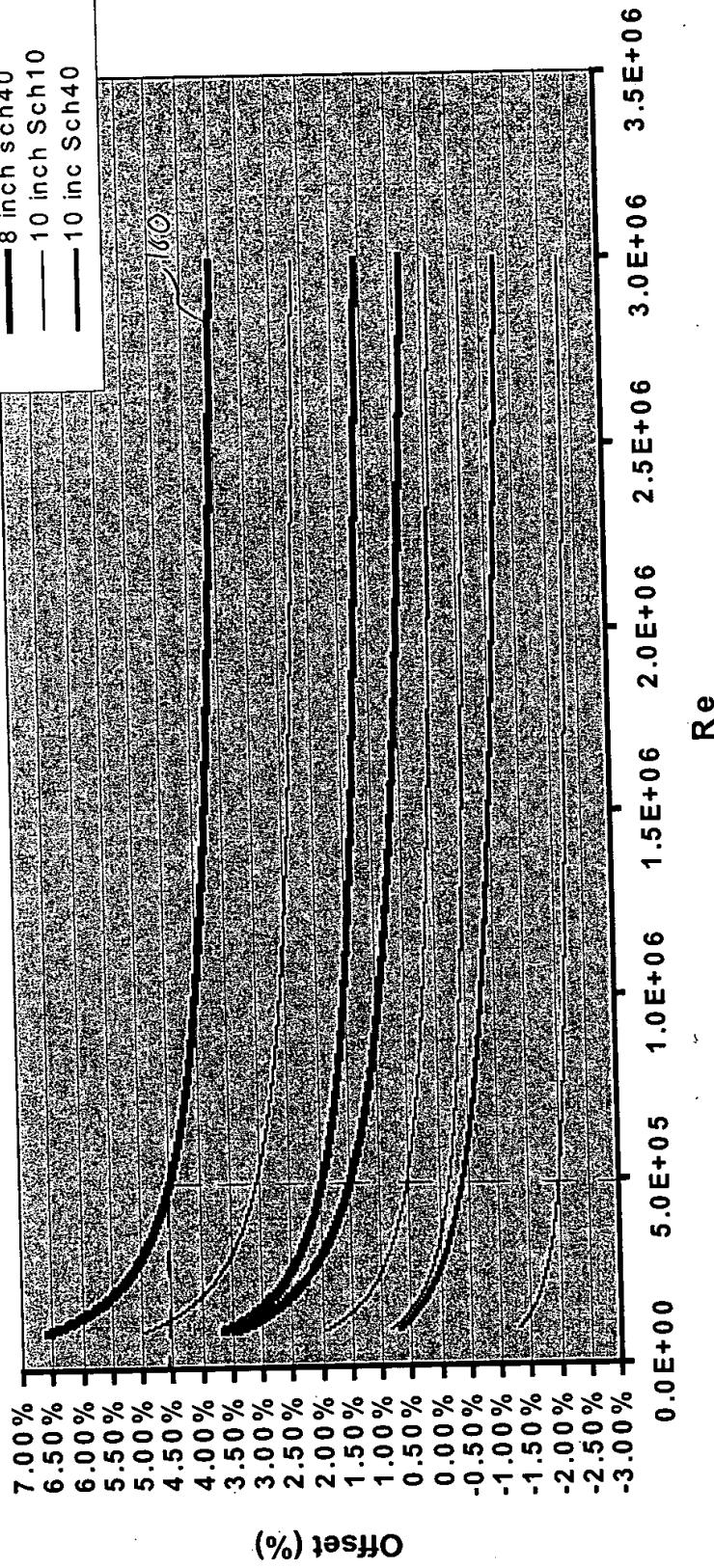


Fig. 9

Family of Calibration Curves



Sch	Sch 10	Sch 40	Sch 10	Sch 40	Sch 10	Sch 40	Sch 10	Sch 40
ID	delX/id	ID	delX/id	C ₁	C ₂	C ₁	C ₂	C ₁
4.2900	55.94%	4.1030	58.49%	0.50	0.50	11.00	12.00	0.0150
6.4000	37.50%	6.1040	39.32%	0.50	0.46	8.00	6.50	-0.0060
8.3300	28.81%	8.0700	29.74%	0.50	0.36	5.80	2.80	-0.0100
10.4450	22.98%	10.1110	23.74%	0.50	0.20	4.00	0.40	-0.0257